



# Permit to Operate an Air Contaminant Source

## Terms and Conditions

US EPA RECORDS CENTER REGION 5



482416

Date of Issuance 10/03/86Application Number 1741188064F054Effective Date 10/03/86Permit Fee \$330

This document constitutes issuance to: **TITANIUM METALS CORP**  
**100 TITANIUM WAY**  
**TORONTO**

OHIO 43964

of a permit to operate:

**HAROWHEEL TRACK TYPE BILLET SURFACE GRINDER**  
**NO. 7 MIDWEST GRINDER**

The following terms and conditions are hereby expressly incorporated into this permit to operate:

### Condition 1

The above described air contaminant source is now operating, and over the period covered by the permit will be operated, in full compliance with all applicable state and federal laws and regulations.

### Condition 2

Prior to any physical change in, or change in the method of operation of, this air contaminant source which increases the amount of any air pollutant emitted, or results in the emission of any air pollutant not previously emitted, a permit to install must be granted by the Ohio Environmental Protection Agency (See Chapter 3745-31 of the Ohio Administrative Code).

### Condition 3

The Director of the Ohio Environmental Protection Agency, or his authorized representative, may enter upon the premises of the source operation at any reasonable time and subject to safety requirements of the person in control of the premises for the purpose of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants and determining compliance with all applicable State and Federal air pollution laws and regulations and the terms and conditions of this permit.

### Condition 4 (This condition applicable if checked: ☐)

Upon declaration of an Air Pollution Alert, Warning or Emergency Episode this air contaminant source will follow those emission reduction procedures enumerated in the Emergency Action Plan approved by the Director for this source.

### Condition 5

This permit to operate shall be effective until 10/03/89. You will be contacted approximately six months prior to this date regarding the renewal of this permit. If you are not contacted, please write to this agency.

### Condition 6

A permit fee in the amount specified above must be remitted within fifteen (15) days of the effective date of this permit.

### Condition 7

Any transferee of this permit shall, personally, assume the responsibilities of the original permit holder-transferor. The Ohio EPA must be notified in writing of any transfer of this permit.

### Condition 8 (This condition is applicable if checked: ☒)

This permit is subject to the supplementary conditions attached.

OHIO ENVIRONMENTAL PROTECTION AGENCY

  
DirectorEPA 3834  
4/12/78

APPLICATION NUMBER: 1741180064 P054  
FACILITY NAME: Titanium Metals Corporation  
EQUIPMENT DESCRIPTION: Hardwheel Track Type Billet Surface Grinder  
COMPANY ID: #7 Midwest Grinder

### SPECIAL TERMS AND CONDITIONS

A. The following rules of the Ohio Administrative Code establish the applicable emission limitations and/or control requirements for this source.

1. Allowable Emissions - Findings & Orders - ORC 3704.03 & OAC Rule 3745-31-05
2. Visible Emissions - OAC Rules 3745-17-07(A)  
3745-17-07(B)
3. Malfunction/Scheduled Maintenance Reporting - OAC Rules 3745-15-06(A)  
3745-15-06(B)
4. Emission Testing Requirements - Findings & Orders - ORC 3704.03

This condition in no way limits the applicability of other requirements of the Ohio Administrative Code to this source.

B. Allowable Mass Emission Limitations and/or Control Requirements.  
The mass emissions from this source shall not exceed the following:

1. Allowable Emissions

The actual mass emissions from this source shall not exceed .05 gr/DSCFM

2. Visible Emissions

Except as specified in paragraphs (B) to (E) of OAC Rule 3745-17-07, Titanium Metals Corporation shall not cause or allow the discharge into the ambient air from any stack any particulate emissions of a shade or density greater than twenty percent (20%) opacity.

Except as otherwise specified in paragraphs (C) to (E) of OAC Rule 3745-17-07, Titanium Metals Corporation may cause or allow the discharge into the ambient air from any stack for not more than six (6) consecutive minutes in any sixty (60) minutes any particulate emissions of a shade or density not greater than sixty percent (60%) opacity.

3. Malfunction/Scheduled Maintenance Reporting

This source and its associated air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturer, as described in Dravo Engineers, Inc. operating and maintenance manual, in order to minimize air contaminant emissions. Any malfunction of this source or its associated air pollution control systems shall be reported immediately to NOVAA in accordance with OAC Rule 3745-15-06. Except as provided by OAC Rule 3745-15-06, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of the air pollution control equipment shall be accompanied by the shutdown of this source.

APPLICATION NUMBER: 1741180064 P054

FACILITY NAME: Titanium Metals Corporation

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#### 4. Emission Testing

Titanium Metals Corporation shall conduct or have conducted emission tests for grinders 1, 2, 5, 6, 7 and Tysaman in order to demonstrate compliance with Orders 1 and 8, and on an annual basis thereafter. The emission tests shall be conducted while the grinders are operating at or close to the maximum process weight rates with "worst case" materials. The emission tests shall include a determination of the uncontrolled mass rate of particulate emission from each group of grinders as described in Finding 4. The emission tests shall be conducted in accordance with the test methods and procedures specified in OAC Rule 3745-17-03.

Not later than 30 days prior to the proposed test dates, Titanium Metals Corporation shall submit an "intent to test" notification to the Ohio EPA field office (NOVAA). The test methods and procedures, the source operating parameters, the times and dates of the tests and the person who will conduct the test shall be described in the notification. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from the Ohio EPA field office (NOVAA) shall be permitted to witness the test, examine the testing equipment and acquire data and information regarding the source operating parameters.

Titanium Metals Corporation shall submit three copies of a comprehensive written report on the results of the emission tests to the Ohio EPA field office (NOVAA) by not later than 30 days after the test date.

PREPARED BY: Harold G. Strohmeyer  
DATE PREPARED: June 11, 1986

HGS:gt

## Permit to Operate an Air Contaminant Source

### Terms and Conditions

Date of Issuance 10/03/86Application Number 1741180064F158Effective Date 10/03/86Permit Fee \$210

This document constitutes issuance to: TITANIUM METALS CORP  
100 TITANIUM WAY  
TORONTO

OHIO 43984

of a permit to operate:

HARDWHEEL TRACK TYPE BILLET SURFACE GRINDER  
TYSAMAN GRINDER

The following terms and conditions are hereby expressly incorporated into this permit to operate:

#### Condition 1

The above described air contaminant source is now operating, and over the period covered by the permit will be operated, in full compliance with all applicable state and federal laws and regulations.

#### Condition 2

Prior to any physical change in, or change in the method of operation of, this air contaminant source which increases the amount of any air pollutant emitted, or results in the emission of any air pollutant not previously emitted, a permit to install must be granted by the Ohio Environmental Protection Agency (See Chapter 3745-31 of the Ohio Administrative Code).

#### Condition 3

The Director of the Ohio Environmental Protection Agency, or his authorized representative, may enter upon the premises of the source operation at any reasonable time and subject to safety requirements of the person in control of the premises for the purpose of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants and determining compliance with all applicable State and Federal air pollution laws and regulations and the terms and conditions of this permit.

#### Condition 4 (This condition applicable if checked: ☐)

Upon declaration of an Air Pollution Alert, Warning or Emergency Episode this air contaminant source will follow those emission reduction procedures enumerated in the Emergency Action Plan approved by the Director for this source.

#### Condition 5

This permit to operate shall be effective until 10/03/89. You will be contacted approximately six months prior to this date regarding the renewal of this permit. If you are not contacted, please write to this agency.

#### Condition 6

A permit fee in the amount specified above must be remitted within fifteen (15) days of the effective date of this permit.

#### Condition 7

Any transferee of this permit shall, personally, assume the responsibilities of the original permit holder-transferor. The Ohio EPA must be notified in writing of any transfer of this permit.

#### Condition 8 (This condition is applicable if checked: ☐)

This permit is subject to the supplementary conditions attached.

OHIO ENVIRONMENTAL PROTECTION AGENCY

  
Director

APPLICATION NUMBER: 1741180064 P058  
FACILITY NAME: Titanium Metals Corporation  
EQUIPMENT DESCRIPTION: Hardwheel Track Type Billet Surface Grinder  
COMPANY ID: Tysaman Grinder

### SPECIAL TERMS AND CONDITIONS

A. The following rules of the Ohio Administrative Code establish the applicable emission limitations and/or control requirements for this source.

1. Allowable Emissions - Findings & Orders - ORC 3704.03 & OAC Rule 3745-31-05
2. Visible Emissions - OAC Rules 3745-17-07(A)  
3745-17-07(B)
3. Malfunction/Scheduled Maintenance Reporting - OAC Rules 3745-15-06(A)  
3745-15-06(B)
4. Emission Testing Requirements - Findings & Orders - ORC 3704.03

This condition in no way limits the applicability of other requirements of the Ohio Administrative Code to this source.

B. Allowable Mass Emission Limitations and/or Control Requirements.  
The mass emissions from this source shall not exceed the following:

1. Allowable Emissions

The actual mass emissions from this source shall not exceed .050 gr/ SCF

2. Visible Emissions

Except as specified in paragraphs (B) to (E) of OAC Rule 3745-17-07, Titanium Metals Corporation shall not cause or allow the discharge into the ambient air from any stack any particulate emissions of a shade or density greater than twenty percent (20%) opacity.

Except as otherwise specified in paragraphs (C) to (E) of OAC Rule 3745-17-07, Titanium Metals Corporation may cause or allow the discharge into the ambient air from any stack for not more than six (6) consecutive minutes in any sixty (60) minutes any particulate emissions of a shade or density not greater than sixty percent (60%) opacity.

3. Malfunction/Scheduled Maintenance Reporting

This source and its associated air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturer, as described in Dravo Engineers, Inc. operating and maintenance manual, in order to minimize air contaminant emissions. Any malfunction of this source or its associated air pollution control systems shall be reported immediately to NOVAA in accordance with OAC Rule 3745-15-06. Except as provided by OAC Rule 3745-15-06, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of the air pollution control equipment shall be accompanied by the shutdown of this source.

APPLICATION NUMBER: 1741180064 P058

FACILITY NAME: Titanium Metals Corporation

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#### 4. Emission Testing

Titanium Metals Corporation shall conduct or have conducted emission tests for grinders 1, 2, 5, 6, 7 and Tysaman in order to demonstrate compliance with Orders 1 and 8, and on an annual basis thereafter. The emission tests shall be conducted while the grinders are operating at or close to the maximum process weight rates with "worst case" materials. The emission tests shall include a determination of the uncontrolled mass rate of particulate emission from each group of grinders as described in Finding 4. The emission tests shall be conducted in accordance with the test methods and procedures specified in OAC Rule 3745-17-03.

Not later than 30 days prior to the proposed test dates, Titanium Metals Corporation shall submit an "intent to test" notification to the Ohio EPA field office (NOVAA). The test methods and procedures, the source operating parameters, the times and dates of the tests and the person who will conduct the test shall be described in the notification. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA's refusal to accept the results of the emission tests.

Personnel from the Ohio EPA field office (NOVAA) shall be permitted to witness the test, examine the testing equipment and acquire data and information regarding the source operating parameters.

Titanium Metals Corporation shall submit three copies of a comprehensive written report on the results of the emission tests to the Ohio EPA field office (NOVAA) by not later than 30 days after the test date.

PREPARED BY: Harold G. Strohmeyer  
DATE PREPARED: June 11, 1986

HGS:gt

## Permit to Operate an Air Contaminant Source

### Terms and Conditions

Date of Issuance 10/03/86Application Number 17411800-4P007Effective Date 10/03/86Permit Fee \$010

This document constitutes issuance to: TITANIUM METALS CORP  
100 TITANIUM WAY  
TORONTO

OHIO 43964

of a permit to operate:

HARWHEEL TRACK TYPE BILLET SURFACE GRINDER  
NO. 6 MIDWEST GRINDER

The following terms and conditions are hereby expressly incorporated into this permit to operate:

#### Condition 1

The above described air contaminant source is now operating, and over the period covered by the permit will be operated, in full compliance with all applicable state and federal laws and regulations.

#### Condition 2

Prior to any physical change in, or change in the method of operation of, this air contaminant source which increases the amount of any air pollutant emitted, or results in the emission of any air pollutant not previously emitted, a permit to install must be granted by the Ohio Environmental Protection Agency (See Chapter 3745-31 of the Ohio Administrative Code).

#### Condition 3

The Director of the Ohio Environmental Protection Agency, or his authorized representative, may enter upon the premises of the source operation at any reasonable time and subject to safety requirements of the person in control of the premises for the purpose of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants and determining compliance with all applicable State and Federal air pollution laws and regulations and the terms and conditions of this permit.

#### Condition 4 (This condition applicable if checked: ☐)

Upon declaration of an Air Pollution Alert, Warning or Emergency Episode this air contaminant source will follow those emission reduction procedures enumerated in the Emergency Action Plan approved by the Director for this source.

#### Condition 5

This permit to operate shall be effective until 10/03/89. You will be contacted approximately six months prior to this date regarding the renewal of this permit. If you are not contacted, please write to this agency.

#### Condition 6

A permit fee in the amount specified above must be remitted within fifteen (15) days of the effective date of this permit.

#### Condition 7

Any transferee of this permit shall, personally, assume the responsibilities of the original permit holder-transferor. The Ohio EPA must be notified in writing of any transfer of this permit.

#### Condition 8 (This condition is applicable if checked: ☒)

This permit is subject to the supplementary conditions attached.

OHIO ENVIRONMENTAL PROTECTION AGENCY

  
Director

APPLICATION NUMBER: 1741180064 P057  
FACILITY NAME: Titanium Metals Corporation  
EQUIPMENT DESCRIPTION: Hardwheel Track Type Billet Surface Grinder  
COMPANY ID: #6 Midwest Grinder

### SPECIAL TERMS AND CONDITIONS

- A. The following rules of the Ohio Administrative Code establish the applicable emission limitations and/or control requirements for this source.

1. Allowable Emissions - Findings & Orders - ORC 3704.03 & OAC Rule 3745-31-05
2. Visible Emissions - OAC Rules 3745-17-07(A)  
3745-17-07(B)
3. Malfunction/Scheduled Maintenance Reporting - OAC Rules 3745-15-06(A)  
3745-15-06(B)
4. Emission Testing Requirements - Findings & Orders - ORC 3704.03

This condition in no way limits the applicability of other requirements of the Ohio Administrative Code to this source.

- B. Allowable Mass Emission Limitations and/or Control Requirements.  
The mass emissions from this source shall not exceed the following:

1. Allowable Emissions

The actual mass emissions from this source shall not exceed .050 gr/SCF.

2. Visible Emissions

Except as specified in paragraphs (B) to (E) of OAC Rule 3745-17-07, Titanium Metals Corporation shall not cause or allow the discharge into the ambient air from any stack any particulate emissions of a shade or density greater than twenty percent (20%) opacity.

Except as otherwise specified in paragraphs (C) to (E) of OAC Rule 3745-17-07, Titanium Metals Corporation may cause or allow the discharge into the ambient air from any stack for not more than six (6) consecutive minutes in any sixty (60) minutes any particulate emissions of a shade or density not greater than sixty percent (60%) opacity.

3. Malfunction/Scheduled Maintenance Reporting

This source and its associated air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturer, as described in Dravo Engineers, Inc. operating and maintenance manual, in order to minimize air contaminant emissions. Any malfunction of this source or its associated air pollution control systems shall be reported immediately to NOVAA in accordance with OAC Rule 3745-15-06. Except as provided by OAC Rule 3745-15-06, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of the air pollution control equipment shall be accompanied by the shutdown of this source.



APPLICATION NUMBER: 1741180064 P057

FACILITY NAME: Titanium Metals Corporation

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#### 4. Emission Testing

Titanium Metals Corporation shall conduct or have conducted emission tests for grinders 1, 2, 5, 6, 7 and Tysaman in order to demonstrate compliance with Orders 1 and 8, and on an annual basis thereafter. The emission tests shall be conducted while the grinders are operating at or close to the maximum process weight rates with "worst case" materials. The emission tests shall include a determination of the uncontrolled mass rate of particulate emission from each group of grinders as described in Finding 4. The emission tests shall be conducted in accordance with the test methods and procedures specified in OAC Rule 3745-17-03.

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Titanium Metals Corporation shall submit three copies of a comprehensive written report on the results of the emission tests to the Ohio EPA field office (NOVAA) by not later than 30 days after the test date.

PREPARED BY: Harold G. Strohmeyer  
DATE PREPARED: June 11, 1986

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